

### Performance

- Technology: 0.35um Power HEMT
- Frequency: 2.0~2.4GHz
- Typical Pout : 12.5W(CW)
- Typical Gain: 12dB
- Typical PAE: 55%
- Bias: 28V/-5V
- Package: Metal Ceramic

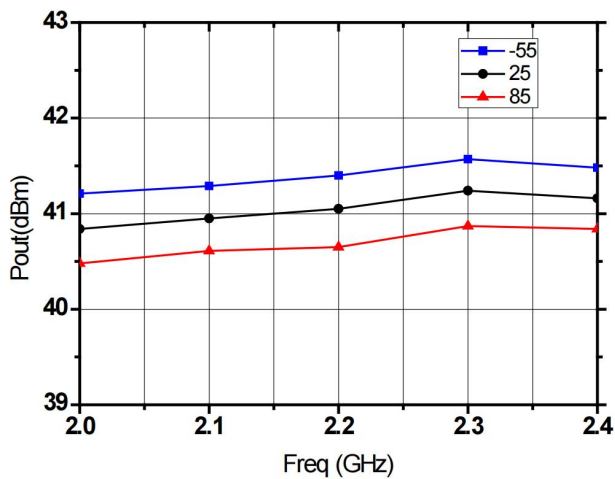


### Electrical Specifications (TA=25°C, Vd=28V, Vg= -5V, F: 2.0-2.4GHz)

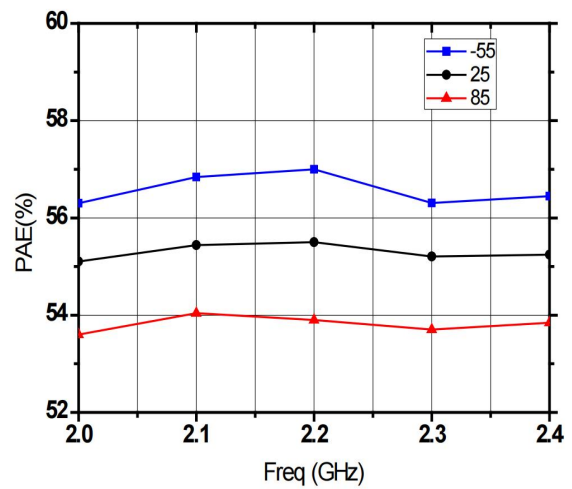
Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	12.5	-	W
Gp	Power Gain	-	12	-	dB
$\eta_{add}$	Power Added Efficiency	-	55	-	%
$\Delta Gp$	Gain Flatness	-0.5	-	+0.5	dB
Rth	Thermal Resistance	-	-	9.6	°C/W

### Test Curves

Pout&Freq. @ Different Temp.



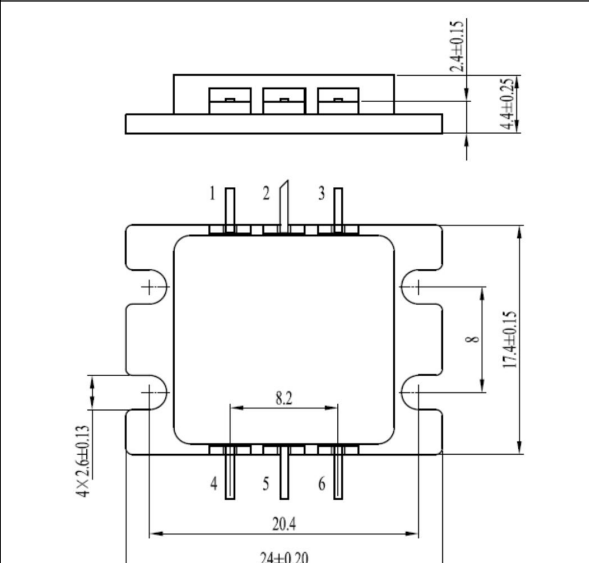
PAE&Freq. @ Different Temp.

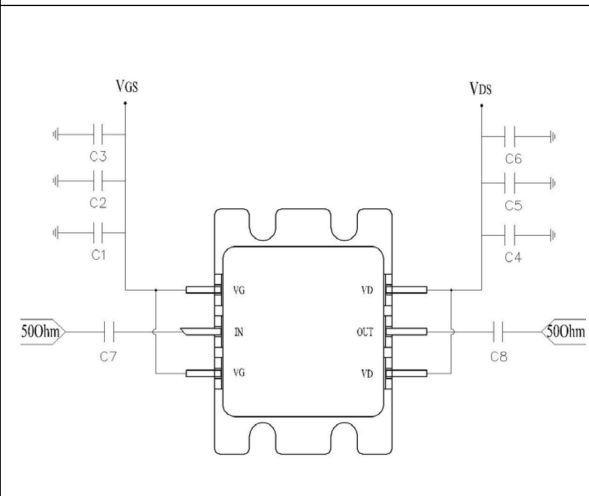


**Absolute Max Ratings (TA=25°C)**

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	36V	
Vg	Grid Voltage	-5V	
Tch	Channel Temperature	175°C	<b>【1】</b>
Tm	Mounting Temperature	300°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~175°C	

**【1】 Exceeding any one or combination of these limits may cause permanent damage.**

Outline Drawing		Dimension Symbol													
		<table border="1"> <thead> <tr> <th>No</th> <th>Function</th> <th>No</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1、 3</td> <td>Vg</td> <td>4、 6</td> <td>Vd</td> </tr> <tr> <td>2</td> <td>RFin</td> <td>5</td> <td>RFout</td> </tr> </tbody> </table>		No	Function	No	Function	1、 3	Vg	4、 6	Vd	2	RFin	5	RFout
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2	RFin	5	RFout												

Application Circuit																			
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**Note:**

- (1) The typical packaging form is C164-2 shell packaging;
- (2) Connect the circuit according to the diagram, pay attention to anti-static, and ensure good grounding and heat dissipation when using power devices;
- (3) In order to ensure the good performance of the power module, the capacity value of the power filter and the energy storage capacitor shall be reasonably selected according to the modulation mode during pulse operation.